



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|--------------------------------------|---------------------|------------------|
| 10/024,739 | 12/19/2001 | Bartholomeus Johannes Van Rijnsoever | NL000748 | 4464 |

24737 7590 04/07/2006

PHILIPS INTELLECTUAL PROPERTY & STANDARDS
P.O. BOX 3001
BRIARCLIFF MANOR, NY 10510

EXAMINER

PERUNGAVOOR, VENKATANARAY

ART UNIT PAPER NUMBER

2132

DATE MAILED: 04/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/024,739

Applicant(s)

VAN RIJNSOEVER ET AL.

Examiner

Venkatanarayanan Perungavoor

Art Unit

2132

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 March 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see Pages 10-14, filed 3/20/2006, with respect to the rejection(s) of claim(s) 1-20 under 35 U.S.C § 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of U.S. Patent 6,542,610 B2 to Traw et al.
2. The Applicant's amendment raises an contradiction to Claim 2, 10, 22 as it recites receivers have an unique set of keys for each receiver, while the base claim recites keys being shared among receivers.
3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

4. Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,712, 800 to Aucsmith in view of U.S. Patent 6,026,165 to Marino et al. (hereinafter Marino) and further in view of U.S. Patent 6,542,610 B2 to Traw et al.(hereinafter Traw).
5. Regarding Claim 1, Aucsmith discloses the transmission system for providing conditional access coupled via network including an transmitter transmitting to all

receivers same data encrypted under control of same key see Fig. 3 item G & Col 6 Ln 55-Col 7 Ln 14 and . And further Aucsmith discloses the receivers receiving the key block and encrypted data see Col 9 Ln 35-62. Aucsmith also discloses the first and second decryptor for decrypting data by master key and key specific to authorized devices(private key and prime number) see Fig. 6 item 515, 520, 530 & Col 10 Ln 48- Col 11 Ln 25. But, Aucsmith does not disclose the transmitter transmitting to receivers key block containing device key and some entries containing authorization key encrypted with the device key. However, Marino discloses the transmitter broadcasting to receivers key block containing device key and some entries containing authorization key encrypted with the device key see Fig. 3 item 30, Fig. 4 item (B) & Col 1 Ln 63-66 & Col 9 Ln 49-58. It would be obvious to one having ordinary skill in the art at the time of the invention to include the transmitter broadcasting to receivers key block containing device key and some entries containing authorization key encrypted with the device key in the invention of Aucsmith in order to have an secure system whereby only authorized and selected receiver can decrypt the messages in as taught in Marino see Col 7 Ln 57-65. Neither Aucsmith nor Marino disclose the shared key between receivers. However, Traw discloses the shared key between receivers see Col 7 Ln 25-33 & Fig. 8 item 806(A, B, C) acts both receivers and transmitters). It would be obvious to one having ordinary skill in the art at the time of the invention to include the shared key between receivers in the invention of

Aucsmith in order to make authentication possible as taught in Traw see Col 7 Ln 16-24.

6. Regarding Claim 2, 10, 22, Aucsmith discloses the set of device keys specific to receivers being unique to the receiver see Col 12 Ln 8-24.
7. Regarding Claim 4, 12, Aucsmith discloses the re-enabling of reception of previously disabled reception by changing key and associated device keys see Col 13 Ln 30-49.
8. Regarding Claim 3, 5, 11, 13 Aucsmith discloses the disabling of decryptors see Col 11 Ln 26-32; and further of disabling of reception see Col 11 Ln 44-49 & Fig. 5 item 525 & replacement(renewing) and revocation of keys see Col 12 Ln 13-38.
9. Regarding Claim 6, 14, Aucsmith discloses the broadcasting in real time see Col 6 Ln 55-64.
10. Regarding Claim 7, Aucsmith does not disclose the transmitter transmitting to receivers key block containing device key and some entries containing authorization key encrypted with the device key. However, Marino discloses the transmitter broadcasting to receivers key block containing device key and some entries containing authorization key encrypted with the device key see Fig. 3 item

30, Fig. 4 item (B) & Col 1 Ln 63-66 & Col 9 Ln 49-58. It would be obvious to one having ordinary skill in the art at the time of the invention to include the transmitter broadcasting to receivers key block containing device key and some entries containing authorization key encrypted with the device key in the invention of Aucsmith in order to have an secure system whereby only authorized and selected receiver can decrypt the messages in as taught in Marino see Col 7 Ln 57-65.

11. Regarding Claim 8, 16, Aucsmith discloses the receiving of key block and encrypted data see Col 10 Ln 52-61 & Col 10 Ln 62-66; first and second decryptors for decrypting using master key and authorized keys specific to receivers(private key and prime) see Fig. 6 item 515, 520, 530 & Col 10 Ln 48- Col 11 Ln 25.

12. Regarding Claim 9, 15, 21, Aucsmith discloses the transmitter and plurality of receivers coupled via network see Fig. 3 item G; transmitter transmitting data encrypted under the master key and private key see Col 10 Ln 48-61; receiver for decrypting data using master key and authorized device key(private key and prime) see Fig. 6 item 515, 520, 530 & Col 10 Ln 48- Col 11 Ln 25. Aucsmith does not disclose the transmitter transmitting to receivers key block containing device key and some entries containing authorization key encrypted with the device key. However, Marino discloses the transmitter broadcasting to receivers

key block containing device key and some entries containing authorization key encrypted with the device key see Fig. 3 item 30, Fig. 4 item (B) & Col 1 Ln 63-66 & Col 9 Ln 49-58. It would be obvious to one having ordinary skill in the art at the time of the invention to include the transmitter broadcasting to receivers key block containing device key and some entries containing authorization key encrypted with the device key in the invention of Aucsmith in order to have an secure system whereby only authorized and selected receiver can decrypt the messages in as taught in Marino see Col 7 Ln 57-65. Neither Aucsmith nor Marino disclose the shared key between receivers. However, Traw discloses the shared key between receivers see Col 7 Ln 25-33 & Fig. 8 item 806(A, B, C) acts both receivers and transmitters). It would be obvious to one having ordinary skill in the art at the time of the invention to include the shared key between receivers in the invention of Aucsmith in order to make authentication possible as taught in Traw see Col 7 Ln 16-24.

13. Regarding Claim 17, 19, Aucsmith discloses the key block corresponding to a subset of different device keys see Col 10 Ln 26-47.

14. Regarding Claim 18, 20, Aucsmith discloses the receivers using first decryptor and key block to retrieve authorization key see Fig. 6 item 510, 515, 530.

Conclusion

15. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

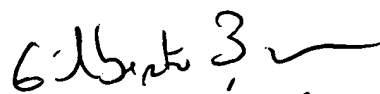
16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Venkatanarayanan Perungavoor whose telephone number is 571-272-7213. The examiner can normally be reached on 8-4:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system.

Art Unit: 2132

Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Venkatanarayanan Perungavoor
Examiner
Art Unit 2132

VP
3/27/2006


GILBERTO BARRON JR.
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100